

**MDR1 VARIANTS AND METHODS FOR THEIR USE**

**ABSTRACT**

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This invention provides the identification of a truncation polymorphism of the *mdr1* gene that is linked to ivermectin sensitivity in subjects, such as collies. Also provided are methods for detecting drug transport sensitivity in a subject, and animal models and *in vitro* cell systems using cells from animals having an *mdr1* truncation.

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